

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.	MO-0121045
Owner:	BFI Waste Systems of Missouri, LLC
Address:	P.O. Box 29, Lamar, MO 64759
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Prairie View Regional Waste Facility
Facility Address:	RRUS71and Route DD, Lamar, MO 64759
Legal Description:	SW ¹ / ₄ , NW ¹ / ₄ , Sec. 02, T32N, R31W, Barton County
Receiving Stream:	Unnamed Tributary to Little Drywood Creek (U)
First Classified Stream and ID:	Little Drywood Creek (C) (01326)
USGS Basin & Sub-watershed No.:	(10290104-060001)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 - Landfill - SIC #4953

Design flow (1 in 10 year frequency) is 8.7 MGD.
Actual flow is dependent upon rainfall.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

November 5, 2004

Effective Date

Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

November 4, 2009

Expiration Date

R. Bruce Martin, Director, Southwest Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				PAGE NUMBER 2 of 6		
				PERMIT NUMBER MO-0121045		
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u> – Stormwater						
Flow	MGD	*		*	once/quarter**	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L	60		30	once/quarter**	grab
Chemical Oxygen Demand	mg/L	120		90	once/quarter**	grab
Total Suspended Solids	mg/L	80		60	once/quarter**	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/quarter**	grab
Total Dissolved Solids	mg/L	*		*	once/quarter**	grab
pH – Units	SU	***		***	once/quarter**	grab
Conductivity (Specific Conductance)	micromhos/cm 25°C	*		*	once/quarter**	grab
Chloride Plus Sulfates	mg/L	1000		*	once/quarter**	grab
Iron, Total Recoverable	mg/L	*		*	once/quarter**	grab
BETX	mg/L	0.75		0.75	once/quarter**	grab
Rainfall****	inches	*		*	daily measurement	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JANUARY 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)					PAGE NUMBER 3 of 6	
					PERMIT NUMBER MO-0121045	
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		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001 (continued)</u>						
Calcium	mg/L	*		*	once/year****	grab
Fluoride	µg/L	*		*	once/year****	grab
Total Hardness	µg/L	*		*	once/year****	grab
Barium, Total Recoverable	µg/L	*		*	once/year****	grab
Boron, Total Recoverable	µg/L	*		***	once/year****	grab
Cadmium, Total Recoverable	µg/L	*		*	once/year****	grab
Chromium, Total Recoverable	µg/L	*		*	once/year****	grab
Cobalt, Total Recoverable	µg/L	*		*	once/year****	grab
Copper, Total Recoverable	µg/L	*		*	once/year****	grab
Sodium, Total Recoverable	µg/L	*		*	once/year****	grab
Water Temperature	°C	*		*	once/year****	grab
Ammonia as N	mg/L	*****		*****	once/year****	grab
Nitrate and Nitrite as N	mg/L	*		*	once/year****	grab
Phosphorus, Total Recoverable	mg/L	*		*	once/year****	grab
Mercury, Total Recoverable	µg/L	*		*	once/year****	grab
Arsenic, Total Recoverable	µg/L	*		*	once/year****	grab
Lead, Total Recoverable	µg/L	*		*	once/year****	grab
Selenium, Total Recoverable	µg/L	*		*	once/year****	grab
Manganese, Total Recoverable	µg/L	*		*	once/year****	grab
Magnesium, Total Recoverable	µg/L	*		*	once/year****	grab
Zinc, Total Recoverable	µg/L	*		*	once/year****	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> THE FIRST REPORT IS DUE <u>OCTOBER 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)					PAGE NUMBER 4 of 6	
					PERMIT NUMBER MO-0121045	
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		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001 (continued)</u>						
Antimony, Total Recoverable	µg/L	*		*	once/year****	grab
Beryllium, Total Recoverable	µg/L	*		*	once/year****	grab
Nickel, Total Recoverable	µg/L	*		*	once/year****	grab
Sulfate	mg/L	*		*	once/year****	grab
Thallium, Total Recoverable	µg/L	*		*	once/year****	grab
Total Organic Carbon	mg/L	*		*	once/year****	grab
Vanadium, Total Recoverable	µg/L	*		*	once/year****	grab
Oil and Grease	mg/L	15		10	once/year****	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> THE FIRST REPORT IS DUE <u>OCTOBER 28, 2005</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitoring requirement only.

** All samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable precipitation event. Sampling shall occur once per quarter in the periods of January through March, April through June, July through September, and October through December, please note that monitoring reports shall be submitted no later than the 28th day of the month following the monitoring period (April 28th, July 28th, October 28th, and January 28th, respectively). If a precipitation event does not occur within the reporting period, report as no discharge. For tracking purposes samples taken anytime in the first quarter (January through March) will be recorded by the department as though they were taken in March, samples taken anytime in the second quarter (April through June) will be recorded by the department as though they were taken in June, samples taken anytime in the third quarter (July through September) will be recorded by the department as though they were taken in September, and samples taken in the forth quarter (October through December) will be recorded by the department as though they were taken in December.

*** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

**** All samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable precipitation event. Sampling shall occur once per year in the period from October through September and the monitoring report shall be submitted no later than October 28 of each year.

***** The discharge shall not exceed the appropriate values in Table B 10 CSR 20, 7.031

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.
3. All design and operating specifications and all Solid Waste Management Program approval conditions pertaining to water quality are hereby made a part of this permit and shall apply throughout the life of this permit without regard to other conditions, permits, occurrences, etc.
4. This permit does not allow the discharge of stormwater that has contacted the open face of the landfill. This permit does not allow the discharge of untreated leachate. All leachate shall be handled in accordance with the Solid Waste Disposal Area Operating Permit, Report of Approval of Plans and Specifications (with conditions).
5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
6. Report as no-discharge when a discharge does not occur during the report period.

C. SPECIAL CONDITIONS (continued)

7. Water Quality Standards

- (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

8. All activities performed to control erosion on the landfill site (seeding, mulching, terracing, etc.) shall be described and submitted along with the second quarter and fourth quarter Discharge Monitoring Reports. If no erosion controls are undertaken, indicated so on the reports.

- 9. Outfall #001 shall be sampled at the discharge structure of the sediment pond. A permanent marker shall be established to show where sampling is taking place.
- 10. Best Management Practices in accordance with 10 CSR 20-6.200 must be utilized within fourteen (14) days for soil disturbing activities and in areas that divert stormwater runoff to the sediment ponds. In areas where soil disturbing activities have ceased, vegetation must be established in the form of hardy species of grasses within 180 days.